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## **Specialization on Operation & Maintenance of Sub-Station Equipment**

**October, 5 – 10, 2009**  
**Faridabad, Haryana, India**



**DAY-01 Monday, October 5, 2009**

- 16:00 – 17:30            **Registration**
- 17:30 – 17:00            **Introduction to the Course**

**DAY-02 Tuesday, October 6, 2009**

- 10:00 – 10:15            **Welcome Address / Opening Remarks**  
**Mr. Sabyasachi Pattanaik, Senior Technical Advisor, SARI/Energy, PA Consulting Group**
- 10:15 – 10:30            **Keynote Address**  
**Dr. N. S. Saxena, Director General, National Power Training Institute (NPTI)**
- 10:30 – 10:45            **Vote of Thanks**  
**Mr. J. S. S. Rao, Director, National Power Training Institute (NPTI)**
- 10:45 – 11:00            **Group Photograph & Tea Break**

**SESSION ON ELECTRICAL CABLES & ACCESSORIES**

**Mr. Hemant K.T, Executive Director (Corporate & Marketing), Ravin Cables Ltd.**

- 11:00 – 12:00            **Manufacturing Process of Cables**
- 12:00 – 13:00            **Designing of Cables**
- 13:00 – 13:45            **Lunch**
- 13:45 – 14:45            **Quality Tests**
- 14:45 – 15:45            **Quality checks on Cables**
- 15:45 – 16:00            **Tea Break**
- 16:00 – 17:00            **Cable laying & Installation**
- 17:00 – 18:00            **Cable Accessories**
- 18:00 – 18:30            **Q&A Session**

**DAY-03 Wednesday, October 7, 2009**

**SESSION ON DISTRIBUTION TRANSFORMERS**

**Mr. Mukesh Swarup, V.P. Operations, Kotsons Pvt. Ltd.**

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|---------------|--|
| 10:00 – 11:00 | <b>Transformer Specifications/ Manufacturing Process</b> |
| 11:00 – 11:15 | <b>Tea Break</b>   |
| 11:15 – 12:15 | <b>Erection/ Testing and Quality Control</b>             |
| 12:15 – 13:15 | <b>Commissioning/ Maintenance/ Preventive Actions</b>    |
| 13:15 – 14:15 | <b>Lunch</b>   |

**SESSION ON METER MODULE**

**Mr. Madhur Shrivastava, Senior Manager (Business Development), Secure Meters**

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|---------------|--|
| 14:15 – 15:15 | <b>Metering Applications/Installation Aspects</b>                |
| 15:15 – 16:15 | <b>Metering field testing Requirements</b>                       |
| 16:15 – 16:30 | <b>Tea Break</b>   |
| 16:30 – 17:30 | <b>Various growing Metering technologies Prepayment metering</b> |
| 17:30 – 18:00 | <b>Q&amp;A Session</b>   |

**DAY-04 Thursday, October 8, 2009**

**SESSION ON SURGE ARRESTERS**

**Mr. Akella S. S. Sarma, V.P., Lamco Industries Ltd.**

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|---------------|--|
| 10:00 – 11:00 | <b>Surge Arresters and Recent developments</b>     |
| 11:00 – 11:15 | <b>Tea Break</b>                                   |
| 11:15 – 12:15 | <b>Causes of Over voltages/ Surges in a system</b> |
| 12:15 – 13:15 | <b>Various types of Surge Arresters</b>            |
| 13:15 – 14:15 | <b>Lunch</b>                                       |
| 14:15 – 15:15 | <b>Major components</b>                            |
| 15:15 – 16:15 | <b>Manufacturing of Surge Arresters</b>            |
| 16:15 – 16:30 | <b>Tea Break</b>                                   |
| 16:30 – 17:30 | <b>Tests on Surge Arresters</b>                    |
| 17:30 – 18:00 | <b>Q&amp;A Session</b>                             |

## **DAY-05 Friday, October 9, 2009**

### **SESSION ON SWITCHGEAR & CONTROLGEAR**

**Mr. Ravindar Negi, Manager Customer Service (PEC), Schneider Electric India Pvt. Ltd.**

10:00 – 11:00	<b>Overview on Switchgear &amp; Controlgear Concept/products</b>
11:00 – 11:15	<b>Tea Break</b>
11:15 – 12:15	<b>Basic definitions of Switchgear &amp; Controlgear products</b>
12:15 – 13:15	<b>Basic functions of Switchgear &amp; Controlgear products</b>
13:15 – 14:00	<b>Lunch</b>
14:00 – 14:05	<b>Welcome Address</b> <b>Mr. J. S. S. Rao, Director, National Power Training Institute (NPTI)</b>
14:05 – 14:10	<b>Opening Remarks</b> <b>Mr. Chinmaya Acharya, Deputy Regional Program Director, SARI/Energy, USAID</b>
14:10 – 14:15	<b>Prefatory Remarks</b> <b>Mr. Vimal Mahendru, Vice President, Indian Electrical and Electronics Manufacturers Association (IEEMA)</b>
14:15 – 14:25	<b>Appreciation Address</b> <b>Nominated participant from the Afghanistan Team</b>
14:25 – 14:35	<b>Keynote Address</b> <b>Dr. N. S. Saxena, Director General, National Power Training Institute (NPTI)</b>
14:35 – 14:45	<b>Valedictory Address</b> <b>Ms. Erin Soto, Mission Director, USAID India</b>
14:45 – 14:50	<b>Vote of Thanks</b> <b>Mr. Michael Hajny, Chief of Party, SARI/Energy, PA Consulting Group</b>
14:50 – 15:05	<b>Tea Break</b>
15:05 – 16:05	<b>Definitions &amp; terminologies as per IEC of Switchgear &amp; Controlgear products</b>
16:05 – 17:05	<b>Quality checks/Tests</b>
17:05 – 18:00	<b>Fault clearing process</b>
18:00 – 18:30	<b>Q&amp;A Session</b>

## **DAY-06 Saturday, October 10, 2009**

10:00 – 13:00	<b>Visit to Hindustan Vidyut Products Ltd., Faridabad</b>
13:00 – 14:00	<b>Lunch</b>
14:00 – 17:00	<b>Open</b>